

Amendments to the Claims

Please amend the claims as follows:

1-36. (cancelled)

37. (new) A biological cell processing system, comprising:

- i. a supply module having a fluid distribution module and a plurality of supply containers;
- ii. a cell module;
- iii. a processing module;
- iv. a control module;
- v. a plurality of conduits connecting the supply module to the processing module, and the cell module to the processing module;
- vi. a plurality of valves all adapted to the control module and individually adapted to either the supply module, the cell module or the processing module, the operation of the valves being regulatable by the control module; and
- vii. a plurality of sensors all adapted to the control module and individually adapted to either the supply module, the processing module or the cell module, the cell module sensor comprising a weight sensor;

wherein the system is environmentally closed and provides for sterile processing of the biological cells.

38. (new) The system of claim 37, wherein the sensors further include pressure detection devices, optical detection devices, mass flow devices, temperature detection devices, volume determination devices or volume detection devices.

39. (new) The system of claim 37, wherein the supply containers contain process chemicals.

40. (new) The system of claim 39, wherein the process chemicals are selected from the group consisting of: citric acid, sodium phosphate, sodium chloride, water, polyethylene glycol, saline, isotonic buffers, glycan modifying enzymes, and glycan modifying enzyme buffers.

41. (new) The system of claim 39, wherein the process chemicals are sterile.

42. (new) The system of claim 39, further comprising an in-line filter positioned between the supply module and the processing module, the in-line filter having a median pore diameter of about 0.2 microns.

43. (new) The system of claim 37, further comprising a leukocyte depletion filter positioned between the cell module and the processing module.

44. (new) The system of claim 37, wherein the processing module further comprises a centrifuge system.

45. (new) The system of claim 37, wherein the processing module further comprises a heat transfer system.
46. (new) The system of claim 37, wherein the processing module further comprises a processing chamber.
47. (new) The system of claim 46, wherein the processing module further comprises a variable volume processing chamber.
48. (new) The system of claim 47, wherein the processing module further comprises an expressor system.
49. (new) The system of claim 37, further comprising an air module.
50. (new) The system of claim 49, wherein the air module includes an in-line filter having a median pore diameter of about 0.2 microns.
51. (new) The system of claim 37, further comprising a waste module.
52. (new) The system of claim 37, wherein the fluid distribution module further comprises a plurality of pumps adapted to the control module and the supply containers.
53. (new) A biological cell processing system, comprising:
i. a supply module having a fluid distribution module and a plurality of supply containers;
ii. a cell module having blood cells therein;
iii. a processing module;
iv. a control module;
v. a plurality of conduits connecting the supply module to the processing module, and the cell module to the processing module;
vi. a plurality of valves all adapted to the control module and individually adapted to either the supply module, the cell module or the processing module, the operation of the valves being regulatable by the control module;
vii. a plurality of sensors all adapted to the control module and individually adapted to either the supply module, the processing module or the cell module, the cell module sensor comprising a weight sensor;
wherein the system is environmentally closed and provides for sterile processing of the blood cells.
54. (new) The system of claim 53, wherein the blood cells are erythrocytes.
55. (new) The system of claim 54, wherein the blood cells have genotypes A, B or AB.